

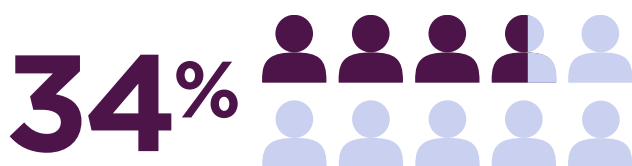
Give your AI and HPC workloads the muscle they need

Lenovo ThinkSystem® servers featuring AMD Instinct™ GPUs help empower industry outcomes



Industrial AI and high performance computing (HPC) applications such as modeling and simulation, predictive maintenance, logistics and supply chain optimization, and energy management have the potential to provide significant competitive advantages and societal benefits to organizations across healthcare, pharmaceutical, social sciences, manufacturing, university research, and financial services.

But without the right technology partners, HPC and AI projects are challenged to deliver results with the speed and reliability these applications require.



Only 34% of CIOs feel their computing infrastructure is “AI ready”¹



Lenovo ThinkSystem SR685a V3 servers, paired with high-performing, compute-intensive **AMD Instinct** GPUs are engineered for optimal performance, scalability, and energy efficiency to support demanding AI and HPC workloads.



Ideal for training, fine tuning and inferencing large AI models and HPC workloads, AMD Instinct GPUs are powered by AMD Compute DNA (CDNA) architecture, offering performance with high memory capacity and bandwidth, scalability, and energy efficiency. AMD Instinct MI300 Series GPUs are designed to hold today's large AI models in fewer GPUs, allowing for lower overall cost.



Together, Lenovo ThinkSystem SR685a V3 servers and AMD Instinct GPUs can accelerate time to value for some of the most challenging HPC and AI inferencing applications.

**Smarter
technology
for all**

Lenovo



Get there faster with Lenovo and AMD

Scaling AI and HPC applications requires breakthrough levels of performance without sacrificing security or reliability. Lenovo ThinkSystem SR685a V3 servers feature powerful **AMD EPYC™** processors with **AMD Instinct™** GPUs and **AMD Infinity Fabric™** for higher bandwidth, lower latency, fewer models needed for workloads, and reduced TCO.



Optimized for industry standard AI and HPC frameworks

Lenovo ThinkSystem servers featuring AMD Instinct GPUs utilize AMD ROCm software, an open software stack including drivers, development tools, and APIs, support common open AI/ML ecosystem frameworks and models such as TensorFlow, PyTorch, Llama, Mistral, Mixtral, Bloom, and Falcon, as well as HPC frameworks and applications for a wide variety of use cases to enable faster deployment and the freedom to tailor solutions precisely to requirements. Deployment-ready content is readily available on AMD Infinity Hub.



A solution you can depend on

Whether for smart manufacturing, energy management, product design, or any of the virtually unlimited use cases — chances are HPC and AI applications play a critical role in your organization's daily operations. Award-winning Lenovo ThinkSystem servers are consistently recognized for their outstanding reliability² and security.³



Deliver HPC and AI as a Service

Lenovo TruScale® provides a flexible, as-a-service delivery model so that you can choose the right solutions for your current needs with the ability to scale on demand, resulting in lower upfront costs, more predictable monthly expenses, and reduced operational overhead, leading reliability and security.



A worldwide team of experts

From initial strategy development through implementation and management, **Lenovo AI Services** is a global team of experts that works side by side with your team to help you deliver innovative solutions that can drive your organization's success.

AI inference, explained

In AI inference, an AI model is trained on a large dataset, much like a person getting intensive training on a new skill. Eventually, when the trained AI model is shown new data, it can then make predictions or decisions by comparing the new data with what it already knows. For instance:

- ✓ An AI model could learn the factors that lead to equipment problems and then predict failures based on real-time sensor information.
- ✓ Historical data, combined with environmental inputs, might be used to predict the performance of solar panels or wind turbines based on a variety of conditions.
- ✓ AI might study past logistics and supply chain operations to suggest efficiencies as market and shipping conditions change.

Lenovo ThinkSystem servers with AMD Instinct GPUs are engineered for high memory capacity and bandwidth to deliver exceptional performance for these AI inference applications and more.



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Lenovo + AMD: A combination you can trust for AI and HPC applications

For decades, Lenovo has been a trusted partner to IT leaders worldwide. Reliable² and secure³ Lenovo ThinkSystem servers featuring AMD EPYC™ processors and AMD Instinct™ GPUs are a powerful combination to deliver high-end performance, scalability, and efficiency for mission-critical AI and HPC applications — backed by Lenovo's team of industry experts and a broad network of solution partners.

Sources

- 1 Lenovo, "Lenovo Global CIO Report 2024," April 2024
- 2 Information Technology Intelligence Consulting, "ITIC 2024 Global Server Hardware, Server OS Reliability Report," November 2024
- 3 Information Technology Intelligence Consulting, "ITIC 2023 Global Server Hardware, Server OS Reliability Report," September 2023

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